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☒ 1. Document ID: US 6569205 B1

L1: Entry 1 of 4

File: USPT

May 27, 2003

US-PAT-NO: 6569205

DOCUMENT-IDENTIFIER: US 6569205 B1

TITLE: Method and system for report presentation and navigation in a computer system

DATE-ISSUED: May 27, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Poggi, Valerie S.	Los Altos	CA		

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE	CODE
International Business Machines Corporation	Armonk	NY			02	

APPL-NO: 09/361779 [PALM]

DATE FILED: July 26, 1999

INT-CL: [07] G06 F 17/30

US-CL-ISSUED: 715/500; 345/854, 345/855

US-CL-CURRENT: 715/500; 715/854, 715/855

FIELD-OF-SEARCH: 707/500, 345/853, 345/854, 345/855, 715/500

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<u>5230072</u>	July 1993	Smith et al.	345/853
<u>5721903</u>	February 1998	Anand et al.	
<u>5748188</u>	May 1998	Hu et al.	
<u>5787416</u>	July 1998	Tabb et al.	707/102
<u>5808615</u>	September 1998	Hill et al.	345/440
<u>5903478</u>	May 1999	Fintel et al.	703/6

<u>6075530</u>	June 2000	Lucas et al.	345/804
<u>6191786</u>	February 2001	Eyzaguirre et al.	345/853
<u>6252597</u>	June 2001	Lokuge	345/841
<u>6259451</u>	July 2001	Tesler	345/419
<u>6317750</u>	November 2001	Tortolani et al.	345/853
<u>6384847</u>	May 2002	Rabenhorst	345/764
<u>6421066</u>	July 2002	Sivan	345/712

## OTHER PUBLICATIONS

Robert Cowart, Mastering Windows 3.1 (Sybex: 1993), pp. 108-112.

ART-UNIT: 2776

PRIMARY-EXAMINER: Herndon; Heather R.

ASSISTANT-EXAMINER: Bieneman; Charles A

ATTY-AGENT-FIRM: Sawyer Law Group LLP

## ABSTRACT:

A method and system for report presentation and navigation in a computer system that includes multiple reports about multiple components. The method and system include defining relationships between the multiple reports and the multiple components, and visually representing the relationships on a currently displayed report. The method and system further include visually indicating a position of the currently displayed report among the relationships, thereby reducing user disorientation while navigating through the multiple reports.

7 Claims, 6 Drawing figures

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
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☒ 2. Document ID: US 6460031 B1

L1: Entry 2 of 4

File: USPT

Oct 1, 2002

US-PAT-NO: 6460031

DOCUMENT-IDENTIFIER: US 6460031 B1

TITLE: System and method for creating and titling reports using an integrated title bar and navigator

DATE-ISSUED: October 1, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Wilson, III; John M.	Mountain View	CA		
Good; Michael	Los Altos	CA		

Ebert; Peter                      Menlo Park                      CA

## ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
SAP Aktiengesellschaft	Walldorf			DE	03

APPL-NO: 09/340304    [PALM]

DATE FILED: June 28, 1999

INT-CL: [07] G06 F 17/30, G06 F 17/27

US-CL-ISSUED: 707/3; 707/104, 704/9

US-CL-CURRENT: 707/3; 704/9

FIELD-OF-SEARCH: 707/1-6, 707/100-104, 704/9-10

PRIOR-ART-DISCLOSED:

## U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<u>5369763</u>	November 1994	Biles	395/600
<u>5404512</u>	April 1995	Powers et al.	395/600
<u>5555403</u>	September 1996	Cambot et al.	395/600
<u>5603025</u>	February 1997	Tabb et al.	395/602
<u>5659724</u>	August 1997	Borgida et al.	395/603
<u>5701453</u>	December 1997	Maloney et al.	395/602
<u>5778357</u>	July 1998	Kolton et al.	707/2
<u>5909678</u>	June 1999	Bergman et al.	707/4
<u>5956708</u>	September 1999	Dyko et al.	707/3
<u>6006221</u>	December 1999	Liddy et al.	707/5
<u>6006224</u>	December 1999	McComb et al.	707/5
<u>6076088</u>	June 2000	Paik et al.	707/5
<u>6205447</u>	March 2001	Malloy	707/102

ART-UNIT: 3621

PRIMARY-EXAMINER: Trammell; James P.

ASSISTANT-EXAMINER: Wang; Mary

ATTY-AGENT-FIRM: Finnegan, Henderson, Farabow, Garrett and Dunner, L.L.P.

## ABSTRACT:

A system for creating and titling reports from a database by using a graphical title bar navigator to create and depict a natural language phrase to query a database and title the resulting report such that the navigator itself becomes the title, is provided. A set of parameters embodying the various tables and fields in a traditional database system is provided for selection in a menu by the user

through this navigator. The user selects a first parameter through the navigator. Based on this selection, a further set of parameters is made available. Another selection is made and so on, until the specificity of the query has been achieved. Each selection that is made grammatically follows the selection before it such that the navigator depicts a complete sentence in natural language form. The query is communicated from the interface to the database management system which, in turn, accesses the data. The natural language phrase persists and becomes the title of the report.

24 Claims, 9 Drawing figures

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Drawn
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☒ 3. Document ID: US 5604854 A

L1: Entry 3 of 4

File: USPT

Feb 18, 1997

US-PAT-NO: 5604854

DOCUMENT-IDENTIFIER: US 5604854 A

TITLE: System and methods for reformatting multi-dimensional spreadsheet information

DATE-ISSUED: February 18, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Glassey; Colin R.	San Jose	CA		

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Borland International, Inc.	Scotts Valley	CA			02

APPL-NO: 08/651580 [PALM]

DATE FILED: May 22, 1996

PARENT-CASE:

This is a file wrapper continuation application of application Ser. No. 08/233,143 filed Apr. 22, 1994 which is now abandoned.

INT-CL: [06] G06 F 17/30

US-CL-ISSUED: 395/764; 395/765, 395/342

US-CL-CURRENT: 715/503; 345/419, 715/504, 715/509, 715/788

FIELD-OF-SEARCH: 395/144, 395/145, 395/146, 395/148, 395/155, 395/157, 395/159, 395/160, 395/161, 364/419.17, 364/419.19, 345/59

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<u>5303146</u>	April 1994	Ammirato et al.	364/401
<u>5312478</u>	May 1994	Reed et al.	395/148
<u>5317686</u>	May 1994	Salas et al.	395/157
<u>5319777</u>	June 1994	Perez	395/600
<u>5359724</u>	October 1994	Earle	395/425
<u>5416895</u>	May 1995	Anderson et al.	395/148

## FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO	PUBN-DATE	COUNTRY	CLASS
WO92/04678	March 1992	EP	

## OTHER PUBLICATIONS

Cobb, Exel in Business, Microsoft Press, 1985, pp. 13, 14, 58, 59, 313, 321, 456, 457.

Campbell, Quattro Pro.RTM. 5.0 for Windows.TM. Handbook, Borland Press, 1993, p. 238.

Stinson, C., New Dimensions in Spreadsheets, PC Magazine, Sep. 28, 1993, pp. 183-208.

Walkenbach, J., Windows Spreadsheets: World-Class Analysis Tools, PC World, Feb. 1994, pp. 150-166, 169-174.

ART-UNIT: 242

PRIMARY-EXAMINER: Herndon; Heather R.

ASSISTANT-EXAMINER: Hong; Stephen

ATTY-AGENT-FIRM: Smart; John A. Slone; David N.

## ABSTRACT:

An electronic spreadsheet system of the present invention includes a Data Modeling module for creating multi-dimensional reports from spreads of information. The module includes a preferred report workspace interface--a Data Modeling Desktop--for receiving a user-specified range of source data from an electronic spreadsheet, which may include 2-D as well as 3-D ranges of source data from a spreadsheet notebook. In response to user inputs, the system assembles a corresponding multi-dimensional report by transforming 2-D or 3-D spreadsheet information into multi-dimensional format. In this manner, users can continue to build spreadsheet models on an ad hoc basis (i.e., without designing complex multi-dimensional data models beforehand). When multi-dimensional reporting is desired, the users need only indicate to the system that the then-existing spreadsheet information (which is not in multi-dimensional format) is to be automatically converted by the system into a corresponding multi-dimensional structure, for further analysis and reporting.

23 Claims, 35 Drawing figures

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draws	Doc
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☒ 4. Document ID: US 5426781 A

L1: Entry 4 of 4

File: USPT

Jun 20, 1995

US-PAT-NO: 5426781

DOCUMENT-IDENTIFIER: US 5426781 A

TITLE: Computerized report-based interactive database query interface

DATE-ISSUED: June 20, 1995

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kaplan; Craig A.	Santa Cruz	CA		
Taylor; Stanley E.	San Jose	CA		
Wolff; Gregory J.	Mountain View	CA		

## ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE	CODE
International Business Machines Corporation	Armonk NY				02	

APPL-NO: 07/876255 [PALM]

DATE FILED: April 30, 1992

INT-CL: [06] G06 F 17/30

US-CL-ISSUED: 395/600; 364/DIG.1, 364/282.1, 364/283.3

US-CL-CURRENT: 707/4

FIELD-OF-SEARCH: 395/155, 395/161, 395/600

PRIOR-ART-DISCLOSED:

## U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<u>4752889</u>	June 1938	Rappaport et al.	395/12

## FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO	PUBN-DATE	COUNTRY	CLASS
0314279	May 1989	EP	

## OTHER PUBLICATIONS

Elmasri et al, "Fundamentals of Database Systems", 1989, pp. 241-249.  
Microsoft Multiplan User's Manual, 1985, pp. 9-18, 9-19, 9-6, 9-6.

ART-UNIT: 237

PRIMARY-EXAMINER: Black; Thomas G.

ASSISTANT-EXAMINER: Loomis; John C.

ATTY-AGENT-FIRM: Dawkins; Marilyn Smith Klein; Esther E.

ABSTRACT:

In a computer database system, a method and system are provided for interactively and iteratively constructing a query using a table metaphor displayed on a user display. Alterations are made directly to the table metaphor by the database user. The alterations relate to adding, deleting, or combining columns of attributes and limiting ranges of attribute values. The alterations are registered and the table metaphor updated to reflect the registered alterations. The table metaphor can be repeatedly used to further register additional alterations. The query corresponding to the table metaphor in its final form is run against the full database to generate a report in the format indicated by the table metaphor.

15 Claims, 8 Drawing figures

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	Knowl	Draw De
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